OHD 041064767

UNIVERSITY OF Cincinnati

University Health Services

Environmental Health and Safety
University of Cincinnati
PO Box 210218
Cincinnati OH 45221-0218

Two Edwards Center
51 West Corry Boulevard
Phone (513) 556-4968
Fax (513) 556-4981
Web http://ehs.uc.edu

May 6, 2013

VIA OVERNIGHT MAIL

Mr. Peter Ramanauskas
U.S. EPA Region 5
77 West Jackson Boulevard
Mail Code LU-9j
Chicago, Il 60604-3507

Re: Final PCB Soil Remediation Project Report, Morgens Hall, University of Cincinnati

Dear Mr. Ramanauskas

This letter has been prepared by the University of Cincinnati to transmit the final PCB Soil Remediation Project Report prepared by the consultant Cardno ATC (formerly ATC Associates Inc.) that documents the soil remedial activities performed and the post-remedial site conditions adjacent to Morgens Hall, on the University of Cincinnati campus in Cincinnati, Ohio. This work was conducted as part of a larger revitalization project within Morgens Hall. The work remediation activities were completed in accordance with the U.S. EPA – approved Soil Remediation Work Plan Specifications

If you have any questions, comments or require further information, please contact me at 513-556-4979.

Sincerely

Jan Utrecht

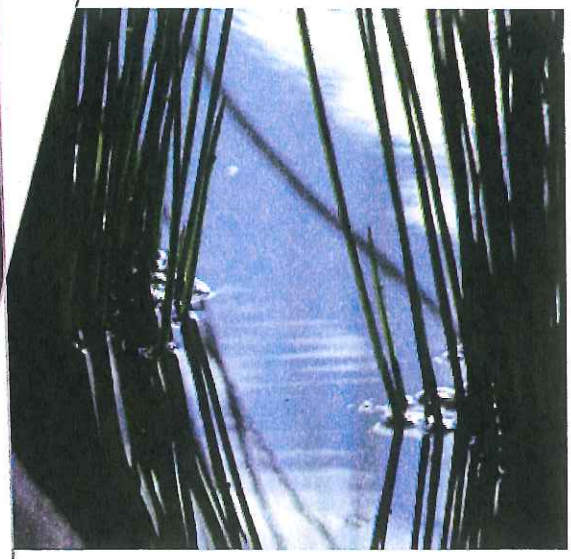
Mr. Jan Utrecht, M.S.
Director, Environmental Health and Safety
University of Cincinnati

cc: Jack Schnieder, Project Manager, University of Cincinnati w/o Attachment

SOIL REMEDIATION

Morgens Hall
University of Cincinnati
2931 Scioto Lane
Cincinnati, Ohio

Cardno ATC Project No. 72.41360.0003



Richard Fleischman + Partners Architects, Inc.
Attn: Mr. Aaron Hill, AIA
1020 Huron Road, Suite 101
Cleveland, Ohio 44115

April 30, 2013

Cardno®
Shaping the Future

TABLE OF CONTENTS

ATTACHMENTS

1.0 INTRODUCTION

Cardno ATC (formerly ATC Associates Inc.) completed oversight of soil remedial activities near Morgens Hall on the University of Cincinnati campus at 2931 Scioto Lane, Cincinnati, Ohio, during February, 2013. The purpose of the project was to address polychlorinated biphenyl (PCB)-impacted soil in the subject area. Work was completed in general accordance with a U.S.EPA-approved *Soil Remediation Work Plan Specification* dated November 14, 2012. This report documents soil remedial activities and post-remedial site conditions.

1.1 Background Information

PCB-containing caulk was discovered around windows in Morgens Hall in association with pre-construction safety testing during the spring of 2011. Pursuant to such discovery, limited soil sampling and analysis was conducted around Morgens Hall on July 26, 2011. Analytical data quantified the presence of PCBs in shallow soils at a maximum of 18.6 mg/kg.

Followup soil sampling and analysis was conducted on September 7, 2011. Surficial soil samples were collected from similar locations and analyzed for PCBs. PCBs were again quantified locally (maximum of 2.88 mg/kg).

Additional sampling and analysis was performed using a grid-based approach during July – September 2012 to investigate the lateral and vertical extent of PCB impact. Findings from such study indicated that impact was surficial in nature and limited laterally to the area immediately adjacent to Morgens Hall to the west, locally extending further west to the sidewalk (see Figure 1). The total volume of PCB-impacted soils was estimated to be approximately 60 cubic yards (equivalent to approximately 90 tons).

1.2 Purpose and Organization

The objective remedial activity was to address PCB impact identified at the site, such that post-remedial conditions met applicable or relevant and appropriate requirements (ARARs). The University of Cincinnati was responsible for overall management of the project. Cardno ATC acted as the University's representative in the field, overseeing soil remedial activities and conducting post-remedial soil sampling/analysis. The remediation contractor (O'Rourke Construction) was responsible for construction-related activities associated with the project.

2.0 REMEDIAL OBJECTIVES

2.1 Project Approach and Remedial Design

The area of impact consisted of shallow, grass-covered topsoil and silty clay. PCB impact was surficial in nature (did not extend beneath a depth of six inches) and was limited in its lateral extent as shown in Figure 1. Impacted soil was remediated through excavation and off-site disposition, with post-remedial sampling and analysis to confirm that remedial objectives were met.

2.2 Remedial Action Objectives

Remediation objectives for the site were two-fold:

- excavate and dispose of PCB-impacted soils from the area of concern in a controlled and safe manner in order to eliminate the direct contact exposure pathway, and
- prevent release of PCBs from impacted soils to the environment (air, water and soil) during remedial activity.

To achieve these remedial objectives, the following specific elements were implemented:

- excavation of shallow PCB-impacted soils,
- off-site disposal of excavated soils at an approved landfill/treatment facility, and
- sampling and analysis of residual soils to confirm successful achievement of remedial objectives, performed in a similar grid fashion/frequency to that implemented during site characterization.

2.3 Action Levels

Toxic Substances Control Act (TSCA) standards for spill cleanup (structured for spills of PCB-contaminated transformer oils) and risk-based PCB standards available through Ohio's Voluntary Action Program (VAP) were utilized as ARARs. Both standards invoke an action level of 1 mg/kg for a residential exposure scenario (equivalent to a "high occupancy" area under TSCA). Although neither standard is directly applicable to the subject site, 1 ppm was utilized as an ARAR to evaluate PCB concentrations in soils at the site, given site use as a university with a nearby residence hall.

3.0 HEALTH AND SAFETY

Remedial activities were performed in a manner that was protective of human health and the environment. Project health and safety measures are summarized in this section.

3.1 Health and Safety Plan

An environmental health and safety plan (HASP) was prepared for the project and implemented in accordance with 40 CFR 1910.120. The plan was based upon a review of previous assessment data from the site. The HASP outlined environmental hazards, recommended personal protective equipment, and decontamination procedures. Remedial activities were performed in accordance with HASP requirements and all personnel were required to comply with the HASP.

The Remediation Contractor prepared a HASP specific to their employees and work practices. The Contractor's HASP was prepared to comply with 29 CFR 1910.120.

Tailgate meetings were held at the beginning of each work shift to emphasize project health and safety, specific hazards of the areas to be entered, and work objectives for that period.

A Site Health and Safety Officer (SHSO) was designated by the Remediation Contractor who was responsible for ensuring that the HASP was implemented and that work practices were conducted in a safe manner. On-site conditions were monitored by the SHSO to ensure that conditions did not exceed Occupational Safety and Health Act (OSHA) exposure thresholds.

All personnel entering the exclusion zone (i.e., the area of remedial excavation) were required to review, sign and follow the HASP. Personnel working in the exclusion zone were required to have 40-hour OSHA training (with annual refreshers) per 29 CFR 1910.120. All visitors to the project site were instructed about the hazards of on-site activities and signed a Visitor's Log.

3.2 Utility Clearance

The HASP required notification to the Ohio Utility Protection Service a minimum of 48 hours prior to excavation activities. Existing utilities were identified and visibly marked by flagging; marking was the responsibility of the University of Cincinnati or its representatives. Prior to construction, the Remediation Contractor submitted plans and obtained approval from the University of Cincinnati detailing how identified utilities were to be handled.

4.0 SOIL REMEDIATION

4.1 Soil Excavation

Soil handling, remediation, and excavation were conducted by O'Rourke Construction a qualified, HAZWOPER-trained contractor. Excavation was performed to a depth of approximately six inches below existing grade. Grade stakes, pre-marked in six-inch increments, were driven to a depth of 18 inches and used as cut markers. The original excavation area is shown in Figure 1. No shoring was required around the perimeter of the excavation given its shallow depth.

Excavation activities were initiated on February 18, 2013. A Cardno ATC geologist was on-site to direct and monitor excavation activities, and observe the nature of the material being excavated. The nature of the materials encountered did not change significantly from materials encountered during the previous investigations; therefore no such materials were segregated.

At the completion of excavation activities, soil samples were collected and analyzed on an expedited basis, as detailed in Section 5.0. Based upon findings from such sampling, additional excavation was required north and west of cell #10 to meet remedial objectives. The remedial excavation was extended approximately 10 feet north of cell 10 on February 21, 2013, and 15 feet west of cell #10 (including its northern extension of 10 feet from the preceding over-excavation) on February 26, 2013.

Impacted soils were loaded directly into lined roll-off boxes placed on-site adjacent to the excavation area. Soil conditions that required further characterization prior to disposal were not encountered.

4.2 Transportation and Disposal

Previous soil data from the area of impact was utilized to complete the profile for waste disposal. Cardno ATC provided characterization data, laboratory reports, and assisted O'Rourke with profile completion. Although data did not suggest that total PCB concentrations exist in excess of 50 ppm (18.6 ppm total PCBs was the maximum quantified in the subject area), impacted soils removed from the site were managed as a TSCA waste.

Material removed from the site was hauled by truck in accordance with applicable federal, state, and local rules and regulations in effect for the transportation of soil and concrete. Soils were disposed of at the below-referenced facility:

Wayne Disposal, Inc. (The Environmental Quality Company)
49350 N I-94 Service Drive
Bellevue, Michigan 48111
EPA ID# MID048090633

PCB-impacted soils removed from the site were manifested, with the University of Cincinnati identified as the generator of the waste. Cardno ATC's representative was provided with a copy of the manifest for each truckload leaving the site. Each driver was required to have

the manifest signed at the disposal facility to document both the disposal of the load and the quantity of material disposed. Completed manifests were returned to the University by noon of the following workday.

Eleven roll-off boxes of PCB-impacted soil (167.78 tons) were removed from the site and disposed of at the above-referenced facility. Disposal documentation is provided in Attachment A.

4.3 Decontamination

To the extent practical, efforts were made to limit the contact of remedial equipment with impacted soils. Any equipment that contacted impacted soils was decontaminated before working in clean areas of the site and prior to leaving the site. Decontamination consisted of gross removal of soils from excavation/ processing equipment using brushes to remove visible soil adhering to the machine. Impacted soils brushed from equipment were contained and disposed with soils to be transported off site.

O'Rourke was required to keep dirt and dust off of the adjacent public roads. All loads in and out of the site were covered.

4.4 Site Restoration

Once confirmatory analytical data was received that documented the achievement of remedial objectives, the area was restored to its original condition. Site restoration was the responsibility of the University of Cincinnati. It was our understanding that the area was to be backfilled to an elevation consistent with the surrounding grades with "clean" fill material, covered with topsoil, seeded and strawed.

5.0 SAMPLING AND ANALYSIS

5.1 Post-Remedial Soil Sampling

At the completion of excavation activities, soil samples were collected to document post-remedial conditions. Samples were collected on a 1.5 meter interval from the floor of the excavation, as outlined in 40 CFR 761.61(a)(6) Subpart O. This grid system resulted in the collection of 18 evenly spaced samples from each of the 27.5 x 17.5 feet "cells" previously established at the site. Each subset of samples from each cell was composited in the laboratory prior to analysis, thereby resulting in the laboratory analysis of a total of 8 composite floor samples. Each sample was labeled with a prefix of the cell identification that it is collected from, followed by the grid # (i.e., samples from cell 1 was labeled C-1-FL).

Exterior sidewall samples were collected and analyzed on the same frequency as noted above. Samples were not collected from the sidewalls against paved surfaces (i.e., the building or sidewalks). Each sidewall sample was composited for the given surface from each cell. A total of seven sidewalls were sampled: three consisted of a composite from six samples, and four consisted of a composite from three samples. Thus, a total of 30 sidewall samples were collected, and composited into seven samples for laboratory analysis. Sidewall samples were labeled as above, with identification of the wall sampled (i.e., C-1-SW for the first sample from the south wall from cell #1).

Samples were collected from exposed soil surfaces with a stainless steel trowel. The trowel was decontaminated between sample sets. The sampler wore nitrile latex gloves that were changed between samples to prevent possible cross-contamination.

Samples were sealed in two-ounce glass jars with Teflon-lined lids (placed on ice upon collection) for laboratory analysis. Each sample was assigned a unique identification number. Each sample jar was labeled with the identification number, sampling date, sampling time, and project name. Samples were transported using chain-of-custody controls to ALS Global Laboratory's facility in Blue Ash, Ohio. Samples were analyzed for total PCBs by SW 846 Method 8082 on a 24-hour rush turnaround basis. Copies of laboratory reports are included in Attachment B.

Any sampled excavation surface that did not meet the remedial objective (i.e., lab data met or exceeded the 1 ppm total PCB remedial objective) was over-excavated laterally at the direction of the University of Cincinnati field representative, as detailed in Section 4.1. Although the west wall of cell #10 did not exceed the ARAR, the decision was made to conservatively excavate shallow soils from cell #17, based upon findings from the west wall of cell #18 (see Figure 2).

Excavated soils were direct-loaded for off-site transport/disposal as noted in Section 4.2. Any over-excavated areas were resampled using protocols outlined above. This process was repeated until post-remedial soil conditions satisfied the remedial objectives. General sample locations (the excavation surface from which they were composited) and analytical data are shown spatially in Figure 2. Laboratory analytical data are summarized in Table 1. Data from samples that were over-excavated are shaded in the table and figure.

5.2 Quality Assurance/Quality Control

Data quality objectives were consistent with those as outlined in USEPA Guidance for Superfund Sites. Such QA/QC procedures called for the collection and analysis of trip blanks, equipment blanks, field blanks and blind duplicates for field activities, generally on a one per twenty samples to be analyzed basis). A trip blank was submitted with each set of samples analyzed. One equipment blank, one field blank and one blind duplicate were also submitted for analysis.

Blanks were collected using distilled water. Each trip blank was prepared at Cardno ATC's office and placed in the cooler prior to being transported to the site. The field blank was filled in the field concurrent with sample collection. The equipment blank was collected from rinseate off the trowel, following decontamination between sampling of the fourth and fifth cell. A duplicate set of samples was collected (consisting of 18 samples) from the fourth cell, and submitted "blind" to the laboratory for compositing prior to analysis. It was labeled with a prefix of "8" (C-8-FL).

All of the samples were extracted by SW 846 Method 3550 and analyzed for total PCBs via SW 846 Method 8082. Internal QA performed by the laboratory included one Matrix Spike/Matrix Spike Duplicate per 20 samples, a Laboratory Control Sample (a spike blank), and a laboratory blank. Data validation was performed by ALS, and reviewed by Cardno ATC. ALS's complete QA plan is available for review upon request.

PCBs were not detected in any of the blanks analyzed. Laboratory QC results met laboratory specifications. Analytical data from the duplicate sample (C-8-FL) and the original (C-4-FL) were both non-detect with identical detection limits. QA/QC duplicate sample results were compared to original sample results. Relative percent difference (RPD) was used as a measure of duplicate variance from the original sample (see QAPP). A RPD less than 50% for soils was considered acceptable. RPD was calculated for the subject sample pair. The RPD was 0% which is well within the acceptable range.

Review of QA/QC information suggests that collected data meet data quality objectives, and that the data may be relied upon to support the conclusions of this study.

6.0 CONCLUSIONS AND RECOMMENDATIONS

PCB-impacted soil was removed from the subject area of impact along the west side of Morgen's Hall on the University of Cincinnati campus during February, 2013. Eleven roll-off-boxes (167.78 tons) were removed and disposed of at Environmental Quality's Wayne Disposal facility in Bellevue Michigan. Post-remedial sampling analysis did not quantify residual conditions in excess of the ARAR of 1 ppm total PCBs.

Findings as outlined above indicate that remedial objectives were met for the project. Accordingly, no further investigation is recommended.

7.0 PROJECT DOCUMENTATION / CERTIFICATION

This report was prepared at the completion of remedial activities to document site remediation and associated post-remedial site conditions. The report includes a description of methodology, waste manifests, data summary tables, figures, and complete laboratory reports (including laboratory QA/QC). Work performed on this project has been performed in general accordance with standard industry practice and applicable regulatory protocols. We certify that the information contained within this report is an accurate representation of our methods and findings.

Matthew Swanke for
Matt Overbeck, Staff Geologist
Report Author

Michael J. Luessen, P.G./C.P., Principal Consultant
Senior Reviewer

On behalf of the University of Cincinnati (the property owner and party conducting the cleanup), I certify that this remedial report, as well as pre-remedial sampling workplans and an associated *Soil Delineation* report will be maintained on file at the University of Cincinnati Office of Environmental Health and Safety, where it will be available for EPA inspection per 40 CFR 761.61(a)(3)(i)(E).

Jan Arthur Utrecht
(signed name)

JAN ARTHUR UTRECHT
(printed name)

DIRECTOR, ENV. HEALTH & SAFETY
(title)

May 6, 2013
(date)

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Matt Overbeck, Staff Geologist for
Report Author

Michael J. Luessen, P.G./C.P., Principal Consultant
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_____
(signed name)

_____
(printed name)

_____
(title)

_____
(date)

LIST OF ATTACHMENTS

TABLE

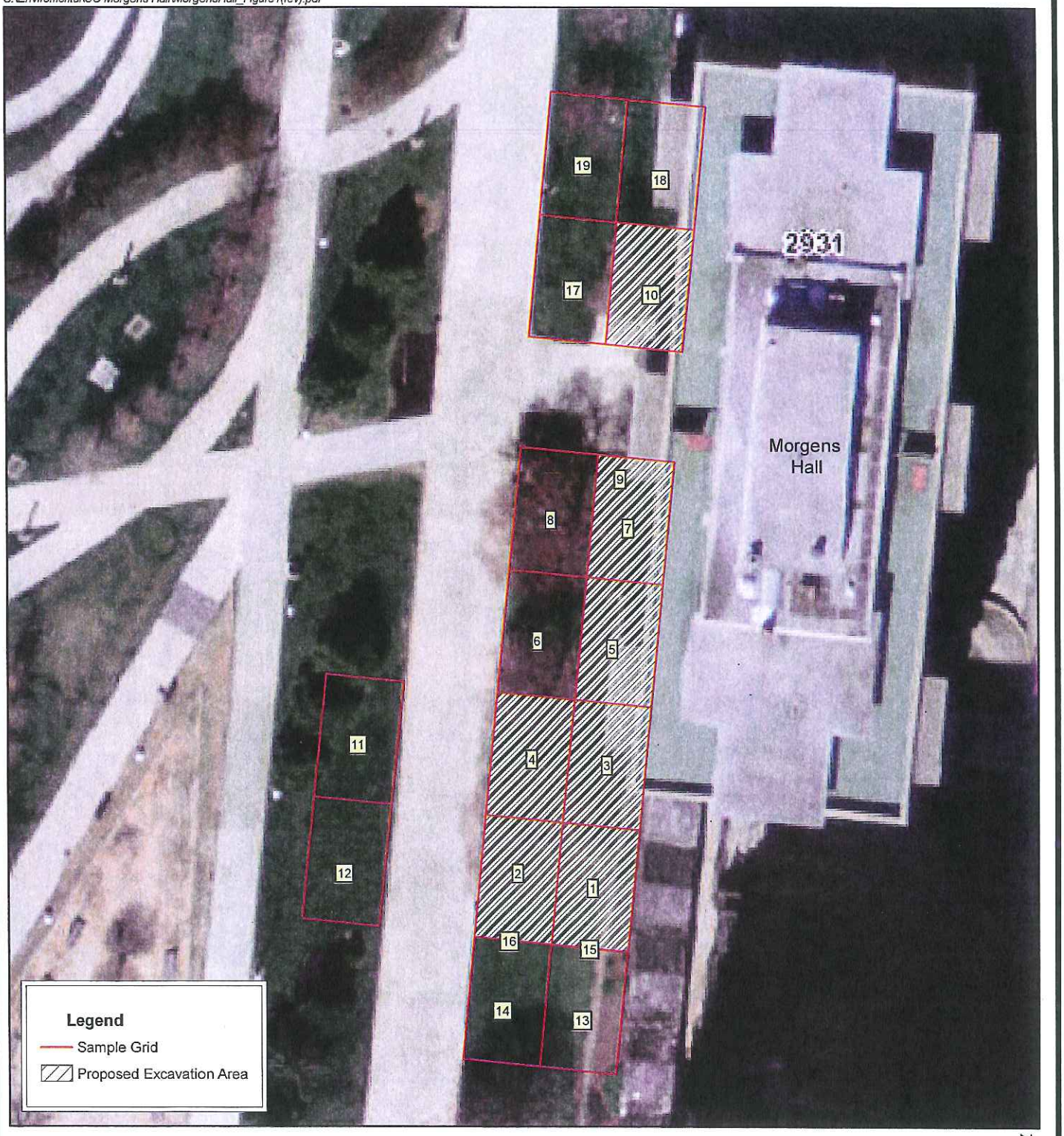
TABLE 1 - SUMMARY OF SOIL ANALYTICAL RESULTS
Morgens Hall
University of Cincinnati
Cincinnati, OH
(all results in mg/kg)

Sample ID		C-1-FL	C-1-SW	C-2-FL	C-2-SW	C-3-FL	C-4-FL	C-4-NW	C-5-FL	C-5-WW	C-7-FL	C-7-WW	C-10-FL	C-10-NW	C-10-WW	C-17-FL	C-18-FL	C-18-NW	C-18-WW	C-19-FL	C-19-NW
Depth (inches)		6	3	6	3	6	6	3	6	3	6	3	6	3	3	6	6	3	3	6	3
Date Collected		02/19/13	02/19/13	02/19/13	02/19/13	02/19/13	02/19/13	02/19/13	02/18/13	02/18/13	02/18/13	02/18/13	02/18/13	02/18/13	02/18/13	02/26/13	02/21/13	02/21/13	02/21/13	02/26/13	02/26/13
8082 GCS PCB	PCB-1016 (Aroclor 1016)	<0.22	<0.20	<0.21	<0.20	<0.22	<0.21	<0.21	<0.020	<0.020	<0.019	<0.022	<0.019	<0.020	<0.021	<0.020	<0.20	<0.21	<0.22	<0.021	<0.022
	PCB-1221 (Aroclor 1221)	<0.43	<0.41	<0.41	<0.40	<0.45	<0.42	<0.42	<0.040	<0.041	<0.038	<0.044	<0.038	<0.040	<0.041	<0.040	<0.41	<0.42	<0.44	<0.043	<0.045
	PCB-1232 (Aroclor 1232)	<0.22	<0.20	<0.21	<0.20	<0.22	<0.21	<0.21	<0.020	<0.020	<0.019	<0.022	<0.019	<0.020	<0.021	<0.020	<0.20	<0.21	<0.22	<0.021	<0.022
	PCB-1242 (Aroclor 1242)	<0.22	<0.20	<0.21	<0.20	<0.22	<0.21	<0.21	<0.020	<0.020	<0.019	<0.022	<0.019	<0.020	<0.021	<0.020	<0.20	<0.21	<0.22	<0.021	<0.022
	PCB-1248 (Aroclor 1248)	<0.22	<0.20	<0.21	<0.20	<0.22	<0.21	<0.21	<0.020	<0.020	<0.019	<0.022	<0.019	<0.020	<0.021	<0.020	<0.20	<0.21	<0.44	<0.021	<0.022
	PCB-1254 (Aroclor 1254)	<0.22	<0.20	<0.21	<0.20	<0.22	<0.21	<0.21	<0.020	<0.020	<0.019	<0.022	<0.019	<0.020	<0.021	0.11	0.37	0.25	1.3	0.41	0.26
	PCB-1260 (Aroclor 1260)	<0.22	<0.20	<0.21	<0.20	<0.22	<0.21	<0.21	0.093	0.31	0.13	0.18	0.28	1.0	0.31	<0.020	<0.20	<0.21	<0.44	<0.021	<0.022

* **Bolded Value** exceeds the ARAR of 1 mg/kg
* Shaded Column indicates data is from a surface that was removed/over-excavated

FIGURES

S:\Enviromental\UC Morgens Hall\MorgensHall_Figure1(rev).pdf



0 30 60 Feet

Aerial Photo Courtesy of CAGIS (2011)

N

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Shaping the Future

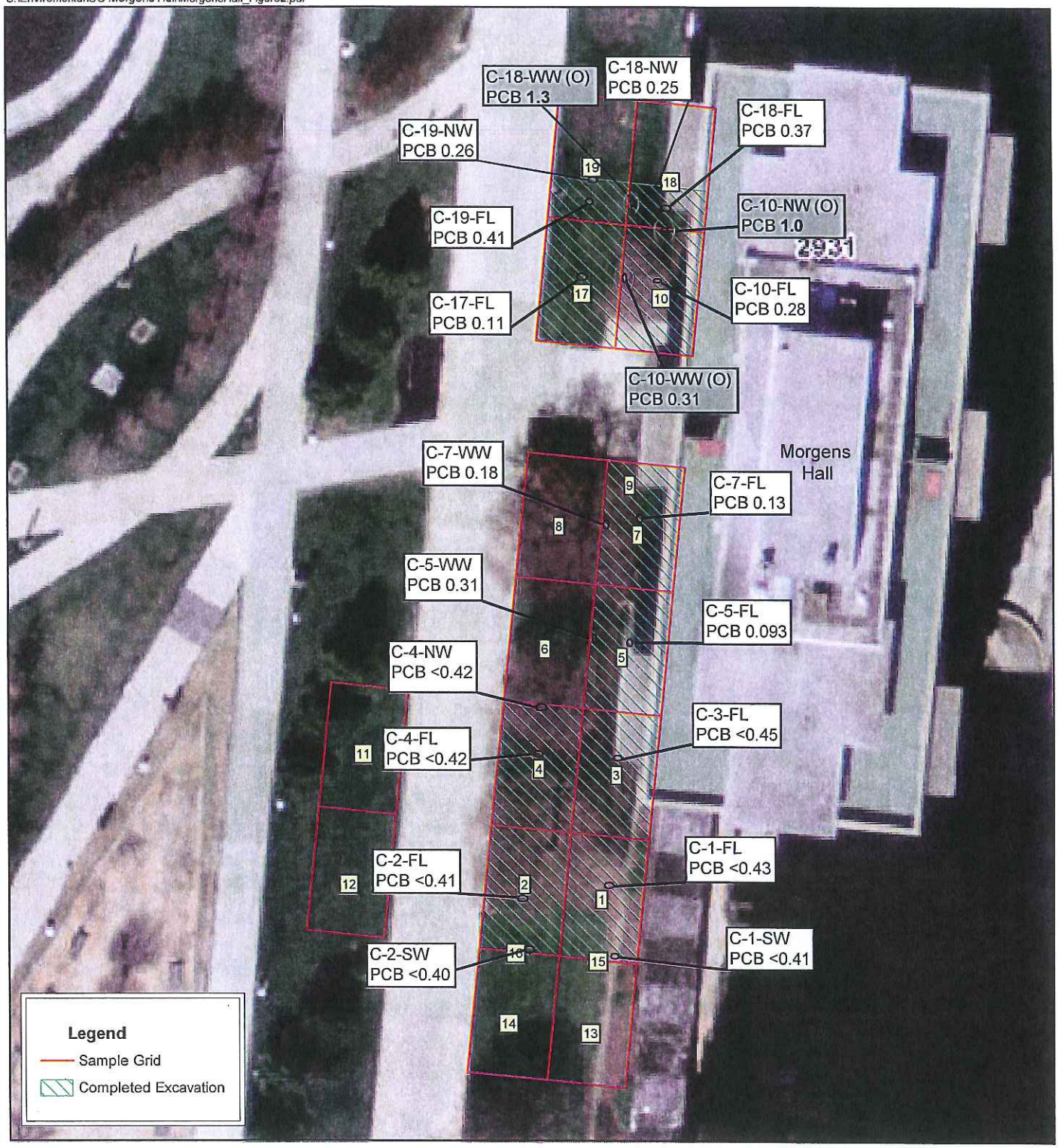
ORIGINAL EXCAVATION AREA

SOIL REMEDIATION
Morgens Hall
University of Cincinnati
Cincinnati, Ohio 45219

Figure No. 1

Date:	04/30/2013
Drawn By:	MN
Checked by:	ML
Project No.:	072.41360.0003

S:\Enviromental\UC Morgens Hall\MorgensHall_Figure2.pdf



(O) - sample location over-excavated

0 30 60 Feet

Aerial Photo Courtesy of CAGIS (2011)

N

Cardno ATC
Shaping the Future

POST-REMEDIAL SOIL CONDITIONS

SOIL REMEDIATION
Morgens Hall
University of Cincinnati
Cincinnati, Ohio 45219

Date:	4/23/2013
Drawn By:	MN
Figure No.	2
Checked by:	ML
Project No.:	072.41360.0003

ATTACHMENT A

000607696VES

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: OHD041084767
2. Page 1 of: 1
3. Emergency Response Phone: (877) 318-0087
4. Manifest Tracking Number: **000607696 VES**

5. Generator's Name and Mailing Address
UNIVERSITY OF CINCINNATI EH&S
PO BOX 210216
CINCINNATI, OH 45221-0216

Generator's Site Address (if different than mailing address)
UNIVERSITY OF CINCINNATI
WEST CAMPUS
46 W. CHARLTON STREET
CINCINNATI, OH 45221

Generator's Phone: 513 556-4975

6. Transporter 1 Company Name: TRIAD TRANSPORT, INC
U.S. EPA ID Number: OKD981553761

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL INC.
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
U.S. EPA ID Number: MID048609633

Facility's Phone: 800 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-REGULATED MATERIAL CONTAINING PCBs	001	CM	15450	K	~~PCBS~~
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: ADDENDUM ATTACHED FOR ADDITIONAL TSCA INFORMATION - ER Service Contracted by VESTS + 1) W341266 A:EQB139019WDI
B-675

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MATT SCHAFTZER
Signature:
Month: 02 Day: 19 Year: 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Cole
Signature:
Month: 02 Day: 19 Year: 13

Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☑ Residue ☐ Partial Rejection ☐ Full Rejection
OK to remove waste code per Dave Haas@Veolia - TC/DC 2/19/13
Manifest Reference Number: U.S. EPA ID Number

18b. Alternate Facility (or Generator)
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. None. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Dan Stiller
Signature:
Month: 02 Day: 20 Year: 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC
4301 INFIRMARY ROAD
P O BOX 453
WEST CARROLLTON, OH 45449

Receipt ID: 1228067
EQ Account #: 6041
Manifest / BOL: 000607696VES
Transporter: TRIAD
Date: 02/20/2013
Time In: 9:11 AM
Time Out: 1:47 PM

Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	16.870 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 75,540 **Tare:** 41,800 **Net:** 33,740	
2	Wayne Disposal Host Community Agreement Royalty Fee	16.870 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 75,540 **Tare:** 41,800 **Net:** 33,740	
3	DIG OUT	1.000 EACH
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 75,540 **Tare:** 41,800 **Net:** 33,740	

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S.L.

and specified on Manifest # 000607696VES, Line Item 1 has been landfilled on

Feb 20, 2013 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [signature]

000607697VES

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
OHD041064767	1	(877) 818-0087	000607697 VES

GENERATOR

5. Generator's Name and Mailing Address: UNIVERSITY OF CINCINNATI EH&S, PO BOX 210218, CINCINNATI, OH 45221-0218

Generator's Phone: 513 556-4975

Generator's Site Address (if different than mailing address): UNIVERSITY OF CINCINNATI, WEST CAMPUS, 45 W CHARLTON STREET, CINCINNATI, OH 45221

6. Transporter 1 Company Name: TRIAD TRANSPORT, INC. — U.S. EPA ID Number: OKD981566791

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL INC., 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111 — U.S. EPA ID Number: MID048090633

Facility's Phone: 800 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON-REGULATED MATERIAL CONTAINING PCBs	001	CM	15450	K	~~PCB6~~		
	2.							
	3.							
	4.							

14. Special Handling (Instructions and Additional Information): ADDENDUM ATTACHED FOR ADDITIONAL TSCA INFORMATION - ER Service Contracted by VESTS -}- 1) W341288 A:EQB139019WDI

B-531

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MATT SCHNETZER — Signature: [signature] — Month: 02 Day: 19 Year: 13

INTL

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rick Martin — Signature: [signature] — Month: 2 Day: 19 Year: 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space: ☒ Quantity 12354KG ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection — 2/25/13

Manifest Reference Number:

OK to remove waste code per Dave Haas@Veolia - TC/DC 2/19/13 JM

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H011 — 2. — 3. — 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: David Tomaselli — Signature: [signature] — Month: 2 Day: 20 Year: 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC
4301 INFIRMARY ROAD
P O BOX 453
WEST CARROLLTON, OH 45449

Receipt ID: 1228068
EQ Account #: 6041
Manifest / BOL: 000607697VES
Transporter: TRIAD
Date: 02/20/2013
Time In: 9:18 AM
Time Out: 3:50 PM

Line	Description / Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	19.090 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 70,160 **Tare:** 31,980 **Net:** 38,180	
2	DIG OUT	1.000 EACH
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 70,160 **Tare:** 31,980 **Net:** 38,180	
3	Wayne Disposal Host Community Agreement Royalty Fee	19.090 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 70,160 **Tare:** 31,980 **Net:** 38,180	

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 000607697 VGF

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: *(Please check one)*	☐ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	☑ Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-593-5329	

Authorized Signature: _____

000607698VES

1007

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	OHD041064767	1	(877) 816-0087	000607698 VES

GENERATOR

5. Generator's Name and Mailing Address
UNIVERSITY OF CINCINNATI EH&S
PO BOX 210218
CINCINNATI, OH 45221-0218
Generator's Phone: 513 556-4975

Generator's Site Address (if different than mailing address)
UNIVERSITY OF CINCINNATI
WEST CAMPUS
45 W CHARLTON STREET
CINCINNATI, OH 45221

6. Transporter 1 Company Name
TRIAD TRANSPORT, INC
U.S. EPA ID Number: OKD981582971

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
WAYNE DISPOSAL INC
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: 800 592-5489
U.S. EPA ID Number: MID048389533

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-REGULATED MATERIAL CONTAINING PCBs	001	CM	15450	K	~~PCBS~~
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
ADDENDUM ATTACHED FOR ADDITIONAL TSCA INFORMATION - ER Service Contracted by VESTS -I- 1) W341268 A.EQB130019WD1

A593

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MATT SCHNETZER
Signature: [signature]
Month: 02 Day: 19 Year: 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DENNIS HARLAN
Signature: [signature]
Month: 2 Day: 19 Year: 13

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
removed PCB code OK per Dave Naas with Veolia DC 2-19-13
Actual weight 13,318 kg OK per Dave Naas @ Veolia 2/25/13 JV
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: David Turnacliff
Signature: [signature]
Month: 2 Day: 20 Year: 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC
4301 INFIRMARY ROAD
P O BOX 453
WEST CARROLLTON, OH 45449

Receipt ID: 1228069
EQ Account #: 6041
Manifest / BOL: 000607698VES
Transporter: TRIAD
Date: 02/20/2013
Time In: 9:22 AM
Time Out: 3:58 PM

Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	14.650 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 70,940 **Tare:** 41,640 **Net:** 29,300	
2	DIG OUT	1.000 EACH
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 70,940 **Tare:** 41,640 **Net:** 29,300	
3	Wayne Disposal Host Community Agreement Royalty Fee	14.650 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 70,940 **Tare:** 41,640 **Net:** 29,300	

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 000607698 VES

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et sea.

FACILITY NAME: *(Please check one)*	☐ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	☒ Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-593-5329	

Authorized Signature: _____

7496 10251 $128

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
OHD041064767	1	(877) 813-0087	000607699 VES

GENERATOR

5. Generator's Name and Mailing Address
UNIVERSITY OF CINCINNATI EH&S
PO BOX 210218
CINCINNATI, OH 45221-0218

Generator's Site Address (if different than mailing address)
UNIVERSITY OF CINCINNATI
WEST CAMPUS
45 W. CHARLTON STREET
CINCINNATI, OH 45221

Generator's Phone: 513 558-4675

6. Transporter 1 Company Name: TRIAD TRANSPORT, INC. — U.S. EPA ID Number: OKD081599791

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL INC.
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111 — U.S. EPA ID Number: MID048090633

Facility's Phone: 800 592-9489

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON-REGULATED MATERIAL CONTAINING PCBs	001	CM	15450	K	PCBs		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information: ADDENDUM ATTACHED FOR ADDITIONAL TSCA INFORMATION - ER Service Contracted by VESTS -|- 1) W341266 A:EQB139019WDI
550 2-25-13 B-671

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MATT SCHNETZER — Signature: [signature] — Month: 02 Day: 21 Year: 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Dennis Harlan — Signature: [signature] — Month: 02 Day: 21 Year: 13

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
ok to add 550 exchange waste code per Dave Maas @ Veolia 2-28-13
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Mike Cowgill — Signature: [signature] — Month: 02 Day: 26 Year: 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC
4301 INFIRMARY ROAD
P O BOX 453
WEST CARROLLTON, OH 45449

Receipt ID: 1228266
EQ Account #: 6041
Manifest / BOL: 000607699VES
Transporter: TRIAD
Date: 02/28/2013
Time In: 10:35 AM
Time Out: 11:52 AM

Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	16.640 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 74,960 **Tare:** 41,680 **Net:** 33,280	
2	Wayne Disposal Host Community Agreement Royalty Fee	16.640 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 74,960 **Tare:** 41,680 **Net:** 33,280	

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S.L.

and specified on Manifest # 000607699 VES, Line Item 1 has been landfilled on Feb 28, 2013 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: _____

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: OHD041064767
2. Page 1 of 1
3. Emergency Response Phone: (877) 818-0087
4. Manifest Tracking Number: **000607700 VES**

5. Generator's Name and Mailing Address: UNIVERSITY OF CINCINNATI EH&S, PO BOX 210218, CINCINNATI, OH 45221-0218

Generator's Site Address (if different than mailing address): UNIVERSITY OF CINCINNATI, WEST CAMPUS, 45 W. CHARLTON STREET, CINCINNATI, OH 45221

Generator's Phone: 513 558-4975

6. Transporter 1 Company Name: TRIAD TRANSPORT, INC. — U.S. EPA ID Number: OKD981588791

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL INC., 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111 — U.S. EPA ID Number: MID048090633

Facility's Phone: 800 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-REGULATED MATERIAL CONTAINING PCBs	001	CM	16450	K	~~PCB6~~ None
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: ADDENDUM ATTACHED FOR ADDITIONAL TSCA INFORMATION - ER Service Contracted by VESTS + 1) W:341266 A:EQB130019WDI

B-1112

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MATT SCHNETZER — Signature: [signature] — Month 02 Day 21 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Rick MARtin — Signature: [signature] — Month 2 Day 21 Year 13
Transporter 2 Printed/Typed Name: Robert Nelson — Signature: [signature] — Month 2 Day 21 Year 13

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 17045 kg OK per Dave Nauss @ Veolia
OK to remove waste code per Dave Nauss @Veolia - CD 2-22-13 2/25/13 JV
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
NONE			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: DAN Shifter — Signature: [signature] — Month 2 Day 22 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC
4301 INFIRMARY ROAD
P O BOX 453
WEST CARROLLTON, OH 45449

Receipt ID: 1228134
EQ Account #: 6041
Manifest / BOL: 000607700VES
Transporter: TRIAD
Date: 02/22/2013
Time In: 10:26 AM
Time Out: 1:01 PM

Line	Description / Generator	Qty.	Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	18.750	TONS
	OHD041064767 UNIVERSITY OF CINCINNATI		
	Gross: 82,420 **Tare:** 44,920 **Net:** 37,500		
2	Wayne Disposal Host Community Agreement Royalty Fee	18.750	TONS
	OHD041064767 UNIVERSITY OF CINCINNATI		
	Gross: 82,420 **Tare:** 44,920 **Net:** 37,500		
3	DIG OUT	1.000	EACH
	OHD041064767 UNIVERSITY OF CINCINNATI		
	Gross: 82,420 **Tare:** 44,920 **Net:** 37,500		

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 000607700 VES

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et sea.

FACILITY NAME: *(Please check one)*	☐ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	☒ Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-593-5329	

Authorized Signature: _____

000607694VES

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number OHD041064787	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 000607694 VES

5. Generator's Name and Mailing Address: UNIVERSITY OF CINCINNATI EH&S, PO BOX 210218, CINCINNATI, OH 45221-0218

Generator's Site Address (if different than mailing address): UNIVERSITY OF CINCINNATI, WEST CAMPUS, 45 W. CHARLTON STREET, CINCINNATI, OH 45221

Generator's Phone: 513 556-4975

6. Transporter 1 Company Name: TRIAD TRANSPORT, INC — U.S. EPA ID Number: OKD092152791

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL INC, 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111 — U.S. EPA ID Number: MID048090833

Facility's Phone: 800 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON-REGULATED MATERIAL CONTAINING PCBs	001	CM	15450	K	PCBS PCB1		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information: ADDENDUM ATTACHED FOR ADDITIONAL TSCA INFORMATION - ER Service Contracted by VESTS -I- 1) W341288 A:EQB139019WDI

B-708

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the ~~waste minimization~~ statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MATT SCHNETZER — Signature: [signature] — Month 12 Day 21 Year 13

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rick Martin — Signature: [signature] — Month 12 Day 21 Year 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

okay to correct waste code per Dave Maas with verbal AEG 2/26/13 — Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone: — Month Day Year

18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: David Tornachi — Signature: [signature] — Month 12 Day 26 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC
4301 INFIRMARY ROAD
P O BOX 453
WEST CARROLLTON, OH 45449

Receipt ID: 1228220
EQ Account #: 6041
Manifest / BOL: 000607694VES
Transporter: TRIAD
Date: 02/26/2013
Time In: 2:11 PM
Time Out: 4:19 PM

Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	16.670 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 75,800 **Tare:** 42,460 **Net:** 33,340	
2	Wayne Disposal Host Community Agreement Royalty Fee	16.670 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 75,800 **Tare:** 42,460 **Net:** 33,340	

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Soil

and specified on Manifest # 000007094 VES, Line Item 1 has been landfilled on

Feb 26, 2013 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [signature]

1007

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	OHD041064787	1	(877) 818-0087	000607695 VES

GENERATOR

5. Generator's Name and Mailing Address
UNIVERSITY OF CINCINNATI EH&S
PO BOX 210216
CINCINNATI, OH 45221-0216

Generator's Site Address (if different than mailing address)
UNIVERSITY OF CINCINNATI
WEST CAMPUS
46 W. CHARLTON STREET
CINCINNATI, OH 45221

Generator's Phone: 513 558-4975

6. Transporter 1 Company Name: TRIAD TRANSPORT, INC. — U.S. EPA ID Number: OKD981588791

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL INC.
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: 800 592-9100 — U.S. EPA ID Number: MID048009633

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON-REGULATED MATERIAL CONTAINING PCBs	001	CM	15450	K	~~9080~~	NONE	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information: ADDENDUM ATTACHED FOR ADDITIONAL TSCA INFORMATION - ETR Service Contracted by VESTS + 1) W341286 A EQB139019MDI

B-915

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MATT SCHNETZER — Signature: [signature] — Month: 02 Day: 21 Year: 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Dennis Harlan — Signature: [signature] — Month: 02 Day: 21 Year: 13

Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
OK to remove waste code per Dave Nagy@ Veolia - CO 2-22-13
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
NONE			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: M. L Worley — Signature: [signature] — Month: 2 Day: 22 Year: 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC
4301 INFIRMARY ROAD
P O BOX 453
WEST CARROLLTON, OH 45449

Receipt ID: 1228132
EQ Account #: 6041
Manifest / BOL: 000607695VES
Transporter: TRIAD
Date: 02/22/2013
Time In: 10:21 AM
Time Out: 11:14 AM

Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	15.780 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI **Gross:** 74,320 **Tare:** 42,760 **Net:** 31,560	
2	Wayne Disposal Host Community Agreement Royalty Fee	15.780 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI **Gross:** 74,320 **Tare:** 42,760 **Net:** 31,560	

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 000667695 VES

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et sea.

FACILITY NAME: *(Please check one)*	☐ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	☒ Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-593-5329	

Authorized Signature: _____

000607701VES

Truck 133D

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	OHD041064787	1	(877) 818-0087	000607701 VES

5. Generator's Name and Mailing Address
UNIVERSITY OF CINCINNATI EH&S
PO BOX 210216
CINCINNATI, OH 45221-0216
Generator's Phone: 513 556-4975

Generator's Site Address (if different than mailing address)
UNIVERSITY OF CINCINNATI
WEST CAMPUS
45 W. CHARLTON STREET
CINCINNATI, OH 45221

6. Transporter 1 Company Name: TRIAD TRANSPORT, INC. — U.S. EPA ID Number: OKD986153791

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL INC
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: 800 592-5489 — U.S. EPA ID Number: MID048090822

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON-REGULATED MATERIAL CONTAINING PCBs	001	CM	15450	K	PCBs RCB1		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information: ADDENDUM ATTACHED FOR ADDITIONAL TSCA INFORMATION - ER Service Contracted by VESTS -I- 1) W:341266 A:EOB139019WDI

B-769

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MATTSCHINETZER — Signature: [signature] — Month: 02 Day: 26 Year: 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
DON BROWN	[signature]	02	26	13
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

18. Discrepancy

18a. Discrepancy Indication Space: ☒ Quantity 8,863 KG ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
Okay to change waste code per Dave Maas with Veolia AR6 2/27/13 2/26/13 JV

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	2	27	13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC
4301 INFIRMARY ROAD
P O BOX 453
WEST CARROLLTON, OH 45449

Receipt ID: 1228231
EQ Account #: 6041
Manifest / BOL: 000607701VES
Transporter: TRIAD
Date: 02/27/2013
Time In: 10:02 AM
Time Out: 11:17 AM

Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	14.150 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 73,160 **Tare:** 44,860 **Net:** 28,300	
2	Wayne Disposal Host Community Agreement Royalty Fee	14.150 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 73,160 **Tare:** 44,860 **Net:** 28,300	

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 000607701 VES, Line Item 1 has been landfilled on

Feb 27, 2013 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [signature]

000607706VES

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: OHD041084767
2. Page 1 of 1
3. Emergency Response Phone: (877) 818-0087
4. Manifest Tracking Number: **000607706 VES**

5. Generator's Name and Mailing Address: UNIVERSITY OF CINCINNATI EH&S, PO BOX 210218, CINCINNATI, OH 45221-0218

Generator's Site Address (if different than mailing address): UNIVERSITY OF CINCINNATI, WEST CAMPUS, 45 W. CHARLTON STREET, CINCINNATI, OH 45221

Generator's Phone: 513 558-4975

6. Transporter 1 Company Name: TRIAD TRANSPORT, INC. — U.S. EPA ID Number: OKD981588791

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL INC, 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111 — U.S. EPA ID Number: MID048090633

Facility's Phone: 800 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON-REGULATED MATERIAL CONTAINING PCBs	001	CM	05000	K	PCB		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information: ADDENDUM ATTACHED FOR ADDITIONAL TSCA INFORMATION - ER Service Contracted by VESTS -|- 1) W341286 A:EQB139019WDI

SSD 2-25-13 CONT ID # - B-890

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MATT SCHNETZER — Signature: [signature] — Month/Day/Year: 02/28/13

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Alan M. Leone — Signature: [signature] — Month/Day/Year: 2/22/13

Transporter 2 Printed/Typed Name: — Signature: — Month/Day/Year:

18. Discrepancy

18a. Discrepancy Indication Space: ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Actual weight 11,312 kg OK per Dave Naas @ Veolia CD/NC 2-28-13

OK to add SSD & waste code per Dave Naas @ Veolia 3/1/13 JV

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month/Day/Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: David Trnaki — Signature: [signature] — Month/Day/Year: 2/28/13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC
4301 INFIRMARY ROAD
P O BOX 453
WEST CARROLLTON, OH 45449

Receipt ID: 1228287
EQ Account #: 6041
Manifest / BOL: 000607706VES
Transporter: TRIAD
Date: 02/28/2013
Time In: 2:20 PM
Time Out: 4:04 PM

Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	12.510 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 67,240 **Tare:** 42,220 **Net:** 25,020	
2	Wayne Disposal Host Community Agreement Royalty Fee	12.510 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 67,240 **Tare:** 42,220 **Net:** 25,020	

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Soil

and specified on Manifest # 000607706 VES, Line Item 1 has been landfilled on

Feb 28, 2013 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: _____

000607722VES

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: OHD041064767
2. Page 1 of: 1
3. Emergency Response Phone: (877) 818-0087
4. Manifest Tracking Number: **000607722 VES**

5. Generator's Name and Mailing Address: UNIVERSITY OF CINCINNATI EH&S, PO BOX 210216, CINCINNATI, OH 45221-0216

Generator's Site Address (if different than mailing address): UNIVERSITY OF CINCINNATI, WEST CAMPUS, 45 W. CHARLTON STREET, CINCINNATI, OH 45221

Generator's Phone: ~~513 558-4875~~

6. Transporter 1 Company Name: TRIAD TRANSPORT, INC.
U.S. EPA ID Number: OKD981588791

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL INC, 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111
U.S. EPA ID Number: MID048090633

Facility's Phone: 800 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON-REGULATED MATERIAL CONTAINING PCBs	001	CM	15450	K	PCB8		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information: ADDENDUM ATTACHED FOR ADDITIONAL TSCA INFORMATION - ER Service Contracted by VESTS -I- 1) W341266 A:EQB139019WD1

B-837

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MATT SCHNETZER — Signature — Month 03 Day 01 Year 13

TRANSPORTER INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] — Signature — Month 3 Day 1 Year 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Actual weight 9,045 kg OK per Dave Nance Oversight 3/4/13 JV

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone: — Month Day Year

18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: DAN STELLER — Signature — Month 3 Day 1 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC
4301 INFIRMARY ROAD
P O BOX 453
WEST CARROLLTON, OH 45449

Receipt ID: 1228369
EQ Account #: 6041
Manifest / BOL: 000607722VES
Transporter: TRIAD
Date: 03/01/2013
Time In: 4:02 PM
Time Out: 5:15 PM

Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	9.950 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 62,220 **Tare:** 42,320 **Net:** 19,900	
2	Wayne Disposal Host Community Agreement Royalty Fee	9.950 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 62,220 **Tare:** 42,320 **Net:** 19,900	

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S.I.

and specified on Manifest # 000607722 VES, Line Item 1 has been landfilled on

March 1, 2013 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [signature]

000607723VES

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: OHD041064787
2. Page 1 of: 1
3. Emergency Response Phone: (877) 818-0087
4. Manifest Tracking Number: **000607723 VES**

5. Generator's Name and Mailing Address: UNIVERSITY OF CINCINNATI EH&S, PO BOX 210218, CINCINNATI, OH 45221-0218

Generator's Site Address (if different than mailing address): UNIVERSITY OF CINCINNATI, WEST CAMPUS, 45 W. CHARLTON STREET, CINCINNATI, OH 45221

Generator's Phone: 513 556-4975

6. Transporter 1 Company Name: TRIAD TRANSPORT, INC. — U.S. EPA ID Number: OKD981588791

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL INC., 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111 — U.S. EPA ID Number: MID048090633

Facility's Phone: 800 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON-REGULATED MATERIAL CONTAINING PCBs	001	CM	15450	K	PCB1		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information: ADDENDUM ATTACHED FOR ADDITIONAL TSCA INFORMATION - ER Service Contracted by VESTS -|- 1) W341266 A:EQB130019WDI

SSD - 3-4-13 Con ID# - B-707

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MATT SCHNETZER — Signature: [signature] — Month 03 Day 04 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CLARENCE Thompson — Signature: [signature] — Month 03 Day 04 Year 13

Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space: ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Actual weight 11,503kg OK per Dave Nass @ Veolia 3/5/13 JW

Ok to change waste codes and add PCB info per Dave Nass @ Veolia - CD/AG 3-4-13

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: David Taraacki — Signature: [signature] — Month 3 Day 4 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC
4301 INFIRMARY ROAD
P O BOX 453
WEST CARROLLTON, OH 45449

Receipt ID: 1228382
EQ Account #: 6041
Manifest / BOL: 000607723VES
Transporter: TRIAD
Date: 03/04/2013
Time In: 2:37 PM
Time Out: 3:49 PM

Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	12.720 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 68,460 **Tare:** 43,020 **Net:** 25,440	
2	Wayne Disposal Host Community Agreement Royalty Fee	12.720 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 68,460 **Tare:** 43,020 **Net:** 25,440	

NO SALVAGING ON PREMISES

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S.I.

and specified on Manifest # 000607723 VES, Line Item 1 has been landfilled on

March 4, 2013 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [signature]

ATTACHMENT B

ALS Environmental

19-Feb-2013

Mike Luessen
Cardno ATC
11121 Canal Road
Cincinnati, OH 45241-1861

Tel: 513-771-2112
Fax: 513-782-6908

Re: Morgens Hall; Project No.: 72.41360.0003 Work Order: **1302315**

Dear Mike,

ALS Environmental received 8 samples on 18-Feb-2013 04:23 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 15.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ALS Environmental

Date: 19-Feb-13

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003
Work Order: **1302315**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1302315-01	C-10-FL	Soil		2/18/2013 09:45	2/18/2013 16:23	☐
1302315-02	C-10-NW	Soil		2/18/2013 10:00	2/18/2013 16:23	☐
1302315-03	C-10-WW	Soil		2/18/2013 10:15	2/18/2013 16:23	☐
1302315-04	C-7-FL	Soil		2/18/2013 11:25	2/18/2013 16:23	☐
1302315-05	C-7-WW	Soil		2/18/2013 11:45	2/18/2013 16:23	☐
1302315-06	C-5-FL	Soil		2/18/2013 14:30	2/18/2013 16:23	☐
1302315-07	C-5-WW	Soil		2/18/2013 15:00	2/18/2013 16:23	☐
1302315-08	Trip Blank	Water		2/18/2013	2/18/2013 16:23	☐

ALS Environmental *Date: 19-Feb-13*

Client:	Cardno ATC
Project:	Morgens Hall; Project No.: 72.41360.0003
Work Order:	1302315

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *19-Feb-13*

Client: Cardno ATC

Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302315

Sample ID: C-10-FL **Lab ID:** 1302315-01

Collection Date: 2/18/2013 09:45 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1221	ND		0.038	mg/Kg-dry	1	2/19/2013
Aroclor 1232	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1242	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1248	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1254	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1260	**0.28**		**0.019**	**mg/Kg-dry**	1	2/19/2013
Surr: Decachlorobiphenyl	*87.0*		*22-156*	*%REC*	1	2/19/2013
Surr: Tetrachloro-m-xylene	*80.8*		*34-145*	*%REC*	1	2/19/2013
MOISTURE			**SM2540B**		Prep Date: **2/19/2013**	Analyst: **KMW**
Moisture	**13**		**0.010**	**% of sample**	1	2/19/2013

Note:

ALS Environmental

Date: *19-Feb-13*

Client: Cardno ATC

Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302315

Sample ID: C-10-NW **Lab ID:** 1302315-02

Collection Date: 2/18/2013 10:00 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1221	ND		0.040	mg/Kg-dry	1	2/19/2013
Aroclor 1232	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1242	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1248	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1254	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1260	**1.0**		**0.020**	**mg/Kg-dry**	**1**	2/19/2013
Surr: Decachlorobiphenyl	*87.8*		*22-156*	*%REC*	**1**	2/19/2013
Surr: Tetrachloro-m-xylene	*81.2*		*34-145*	*%REC*	**1**	2/19/2013
MOISTURE			**SM2540B**		Prep Date: **2/19/2013**	Analyst: **KMW**
Moisture	**18**		**0.010**	**% of sample**	**1**	2/19/2013

Note:

ALS Environmental

Date: *19-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003
Work Order: 1302315
Sample ID: C-10-WW
Lab ID: 1302315-03
Collection Date: 2/18/2013 10:15 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.021	mg/Kg-dry	1	2/19/2013
Aroclor 1221	ND		0.041	mg/Kg-dry	1	2/19/2013
Aroclor 1232	ND		0.021	mg/Kg-dry	1	2/19/2013
Aroclor 1242	ND		0.021	mg/Kg-dry	1	2/19/2013
Aroclor 1248	ND		0.021	mg/Kg-dry	1	2/19/2013
Aroclor 1254	ND		0.021	mg/Kg-dry	1	2/19/2013
Aroclor 1260	**0.31**		**0.021**	**mg/Kg-dry**	1	2/19/2013
Surr: Decachlorobiphenyl	*83.2*		*22-156*	*%REC*	1	2/19/2013
Surr: Tetrachloro-m-xylene	*78.4*		*34-145*	*%REC*	1	2/19/2013
MOISTURE			**SM2540B**		Prep Date: **2/19/2013**	Analyst: **KMW**
Moisture	**19**		**0.010**	**% of sample**	1	2/19/2013

Note:

ALS Environmental

Date: *19-Feb-13*

Client: Cardno ATC

Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302315

Sample ID: C-7-FL **Lab ID:** 1302315-04

Collection Date: 2/18/2013 11:25 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1221	ND		0.038	mg/Kg-dry	1	2/19/2013
Aroclor 1232	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1242	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1248	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1254	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1260	**0.13**		**0.019**	**mg/Kg-dry**	1	2/19/2013
Surr: Decachlorobiphenyl	*79.8*		*22-156*	*%REC*	1	2/19/2013
Surr: Tetrachloro-m-xylene	*78.6*		*34-145*	*%REC*	1	2/19/2013
MOISTURE			**SM2540B**		Prep Date: **2/19/2013**	Analyst: **KMW**
Moisture	**12**		**0.010**	**% of sample**	1	2/19/2013

Note:

ALS Environmental

Date: *19-Feb-13*

Client: Cardno ATC

Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302315

Sample ID: C-7-WW **Lab ID:** 1302315-05

Collection Date: 2/18/2013 11:45 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.022	mg/Kg-dry	1	2/19/2013
Aroclor 1221	ND		0.044	mg/Kg-dry	1	2/19/2013
Aroclor 1232	ND		0.022	mg/Kg-dry	1	2/19/2013
Aroclor 1242	ND		0.022	mg/Kg-dry	1	2/19/2013
Aroclor 1248	ND		0.022	mg/Kg-dry	1	2/19/2013
Aroclor 1254	ND		0.022	mg/Kg-dry	1	2/19/2013
Aroclor 1260	**0.18**		**0.022**	**mg/Kg-dry**	1	2/19/2013
Surr: Decachlorobiphenyl	*80.6*		*22-156*	*%REC*	1	2/19/2013
Surr: Tetrachloro-m-xylene	*73.4*		*34-145*	*%REC*	1	2/19/2013
MOISTURE			**SM2540B**		Prep Date: **2/19/2013**	Analyst: **KMW**
Moisture	**24**		**0.010**	**% of sample**	1	2/19/2013

Note:

ALS Environmental

Date: *19-Feb-13*

Client: Cardno ATC

Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302315

Sample ID: C-5-FL **Lab ID:** 1302315-06

Collection Date: 2/18/2013 02:30 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1221	ND		0.040	mg/Kg-dry	1	2/19/2013
Aroclor 1232	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1242	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1248	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1254	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1260	**0.093**		**0.020**	**mg/Kg-dry**	1	2/19/2013
Surr: Decachlorobiphenyl	*77.4*		*22-156*	*%REC*	1	2/19/2013
Surr: Tetrachloro-m-xylene	*75.0*		*34-145*	*%REC*	1	2/19/2013
MOISTURE			**SM2540B**		Prep Date: **2/19/2013**	Analyst: **KMW**
Moisture	**17**		**0.010**	**% of sample**	1	2/19/2013

Note:

ALS Environmental

Date: *19-Feb-13*

Client: Cardno ATC

Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302315

Sample ID: C-5-WW **Lab ID:** 1302315-07

Collection Date: 2/18/2013 03:00 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1221	ND		0.041	mg/Kg-dry	1	2/19/2013
Aroclor 1232	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1242	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1248	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1254	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1260	**0.31**		**0.020**	**mg/Kg-dry**	1	2/19/2013
Surr: Decachlorobiphenyl	*79.0*		*22-156*	*%REC*	1	2/19/2013
Surr: Tetrachloro-m-xylene	*84.0*		*34-145*	*%REC*	1	2/19/2013
MOISTURE			**SM2540B**		Prep Date: **2/19/2013**	Analyst: **KMW**
Moisture	**18**		**0.010**	**% of sample**	1	2/19/2013

Note:

ALS Environmental

Date: *19-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302315
Sample ID: Trip Blank **Lab ID:** 1302315-08
Collection Date: 2/18/2013 **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.51	µg/L	1	2/19/2013
Aroclor 1221	ND		0.51	µg/L	1	2/19/2013
Aroclor 1232	ND		0.51	µg/L	1	2/19/2013
Aroclor 1242	ND		0.51	µg/L	1	2/19/2013
Aroclor 1248	ND		0.51	µg/L	1	2/19/2013
Aroclor 1254	ND		0.51	µg/L	1	2/19/2013
Aroclor 1260	ND		0.51	µg/L	1	2/19/2013
Surr: Decachlorobiphenyl	*83.6*		*37-108*	*%REC*	1	2/19/2013
Surr: Tetrachloro-m-xylene	*87.6*		*9-136*	*%REC*	1	2/19/2013

Note:

ALS Environmental

Date: 19-Feb-13

Client: Cardno ATC

Work Order: 1302315

Project: Morgens Hall; Project No.: 72.41360.0003

QC BATCH REPORT

Batch ID: **15421** Instrument ID: **GC9** Method: **SW8082**

MBLK Sample ID: **MBLK-15421-15421** Units: **mg/Kg** Analysis Date: **2/19/2013**

Client ID: Run ID: **GC9_130219A** SeqNo: **567779** Prep Date: **2/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	*0.0848*	0	*0.1*	0	*84.8*	*22-156*	0			
Surr: Tetrachloro-m-xylene	*0.0838*	0	*0.1*	0	*83.8*	*34-145*	0			

LCS Sample ID: **LCS-15421-15421** Units: **mg/Kg** Analysis Date: **2/19/2013**

Client ID: Run ID: **GC9_130219A** SeqNo: **567780** Prep Date: **2/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.2	0.10	2	0	110	50-133	0			
Surr: Decachlorobiphenyl	*0.0962*	0	*0.1*	0	*96.2*	*22-156*	0			
Surr: Tetrachloro-m-xylene	*0.0874*	0	*0.1*	0	*87.4*	*34-145*	0			

MS Sample ID: **1302315-07Ams** Units: **mg/Kg** Analysis Date: **2/19/2013**

Client ID: **C-5-WW** Run ID: **GC9_130219A** SeqNo: **567788** Prep Date: **2/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	0.5459	0.017	0.3329	0.2493	89.1	31-150	0			
Surr: Decachlorobiphenyl	*0.01358*	0	*0.01664*	0	*81.6*	*22-156*	0			
Surr: Tetrachloro-m-xylene	*0.01302*	0	*0.01664*	0	*78.2*	*34-145*	0			

MSD Sample ID: **1302315-07Amsd** Units: **mg/Kg** Analysis Date: **2/19/2013**

Client ID: **C-5-WW** Run ID: **GC9_130219A** SeqNo: **567789** Prep Date: **2/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	0.5533	0.017	0.3333	0.2493	91.2	31-150	0.5459	1.35	53	
Surr: Decachlorobiphenyl	*0.01343*	0	*0.01667*	0	*80.6*	*22-156*	0.01358	*1.1*		
Surr: Tetrachloro-m-xylene	*0.01313*	0	*0.01667*	0	*78.8*	*34-145*	0.01302	*0.898*		

The following samples were analyzed in this batch:

1302315-01A	1302315-02A	1302315-03A
1302315-04A	1302315-05A	1302315-06A
1302315-07A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Cardno ATC
Work Order: 1302315
Project: Morgens Hall; Project No.: 72.41360.0003

QC BATCH REPORT

Batch ID: **15422** Instrument ID: **GC9** Method: **SW8082**

MBLK Sample ID: **MBLK-15422-15422** Units: **µg/L** Analysis Date: **2/19/2013**
Client ID: Run ID: **GC9_130219A** SeqNo: **567776** Prep Date: **2/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.50								
Aroclor 1221	ND	0.50								
Aroclor 1232	ND	0.50								
Aroclor 1242	ND	0.50								
Aroclor 1248	ND	0.50								
Aroclor 1254	ND	0.50								
Aroclor 1260	ND	0.50								
Surr: Decachlorobiphenyl	*0.327*	0	*0.5*	0	*65.4*	*37-108*	0			
Surr: Tetrachloro-m-xylene	*0.394*	0	*0.5*	0	*78.8*	*9-136*	0			

LCS Sample ID: **LCS-15422-15422** Units: **µg/L** Analysis Date: **2/19/2013**
Client ID: Run ID: **GC9_130219A** SeqNo: **567777** Prep Date: **2/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	9.755	0.50	10	0	97.6	61-122	0			
Surr: Decachlorobiphenyl	*0.359*	0	*0.5*	0	*71.8*	*37-108*	0			
Surr: Tetrachloro-m-xylene	*0.387*	0	*0.5*	0	*77.4*	*9-136*	0			

The following samples were analyzed in this batch: 1302315-08A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003
WorkOrder: 1302315

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
µg/L	
mg/Kg-dry	

ALS Environmental

Sample Receipt Checklist

Client Name: **ATC-CINCINNATI** Date/Time Received: **18-Feb-13 16:23**

Work Order: **1302315** Received by: **AMG**

Checklist completed by: J an W ilcox (eSignature) 19-Feb-13 (Date) Reviewed by: Chris Gibson (eSignature) 19-Feb-13 (Date)

Matrices:

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	6.0		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☒	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☒	N/A ☐
pH adjusted?	Yes ☐	No ☒	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ALS Environmental

20-Feb-2013

Mike Luessen
Cardno ATC
11121 Canal Road
Cincinnati, OH 45241-1861

Tel: 513-771-2112
Fax: 513-782-6908

Re: Morgens Hall; Project No.: 72.41360.0003 Work Order: **1302328**

Dear Mike,

ALS Environmental received 11 samples on 19-Feb-2013 01:12 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ALS Environmental

Date: 20-Feb-13

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003
Work Order: 1302328

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1302328-01	C-3-FL	Soil		2/19/2013 08:20	2/19/2013 13:12	☐
1302328-02	C-4-NW	Soil		2/19/2013 08:45	2/19/2013 13:12	☐
1302328-03	C-4-FL	Soil		2/19/2013 09:30	2/19/2013 13:12	☐
1302328-04	C-8-FL	Soil		2/19/2013 10:00	2/19/2013 13:12	☐
1302328-05	C-1-FL	Soil		2/19/2013 10:45	2/19/2013 13:12	☐
1302328-06	C-2-FL	Soil		2/19/2013 11:30	2/19/2013 13:12	☐
1302328-07	C-1-SW	Soil		2/19/2013 11:50	2/19/2013 13:12	☐
1302328-08	C-2-SW	Soil		2/19/2013 12:00	2/19/2013 13:12	☐
1302328-09	EB	Water		2/19/2013	2/19/2013 13:12	☐
1302328-10	FB	Water		2/19/2013	2/19/2013 13:12	☐
1302328-11	TB	Water		2/19/2013	2/19/2013 13:12	☐

ALS Environmental *Date: 20-Feb-13*

Client:	Cardno ATC
Project:	Morgens Hall; Project No.: 72.41360.0003
Work Order:	1302328

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *20-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302328
Sample ID: C-3-FL **Lab ID:** 1302328-01
Collection Date: 2/19/2013 08:20 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1221	ND		0.45	mg/Kg-dry	1	2/20/2013
Aroclor 1232	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1242	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1248	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1254	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1260	ND		0.22	mg/Kg-dry	1	2/20/2013
Surr: Decachlorobiphenyl	*83.6*		*22-156*	*%REC*	1	2/20/2013
Surr: Tetrachloro-m-xylene	*82.2*		*34-145*	*%REC*	1	2/20/2013
MOISTURE			**SM2540B**		Prep Date: **2/20/2013**	Analyst: **YCL**
Moisture	**25**		**0.010**	**% of sample**	1	2/20/2013

Note:

ALS Environmental

Date: *20-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003
Work Order: 1302328
Sample ID: C-4-NW
Lab ID: 1302328-02
Collection Date: 2/19/2013 08:45 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1221	ND		0.42	mg/Kg-dry	1	2/20/2013
Aroclor 1232	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1242	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1248	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1254	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1260	ND		0.21	mg/Kg-dry	1	2/20/2013
Surr: Decachlorobiphenyl	*78.0*		*22-156*	*%REC*	1	2/20/2013
Surr: Tetrachloro-m-xylene	*77.0*		*34-145*	*%REC*	1	2/20/2013
MOISTURE			**SM2540B**		Prep Date: **2/20/2013**	Analyst: **YCL**
Moisture	**20**		**0.010**	**% of sample**	1	2/20/2013

Note:

ALS Environmental

Date: *20-Feb-13*

Client: Cardno ATC

Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302328

Sample ID: C-4-FL **Lab ID:** 1302328-03

Collection Date: 2/19/2013 09:30 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1221	ND		0.42	mg/Kg-dry	1	2/20/2013
Aroclor 1232	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1242	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1248	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1254	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1260	ND		0.21	mg/Kg-dry	1	2/20/2013
Surr: Decachlorobiphenyl	*79.6*		*22-156*	*%REC*	1	2/20/2013
Surr: Tetrachloro-m-xylene	*77.0*		*34-145*	*%REC*	1	2/20/2013
MOISTURE			**SM2540B**		Prep Date: **2/20/2013**	Analyst: **YCL**
Moisture	**21**		**0.010**	**% of sample**	**1**	2/20/2013

Note:

ALS Environmental

Date: *20-Feb-13*

Client: Cardno ATC

Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302328

Sample ID: C-8-FL **Lab ID:** 1302328-04

Collection Date: 2/19/2013 10:00 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1221	ND		0.42	mg/Kg-dry	1	2/20/2013
Aroclor 1232	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1242	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1248	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1254	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1260	ND		0.21	mg/Kg-dry	1	2/20/2013
Surr: Decachlorobiphenyl	*84.2*		*22-156*	*%REC*	1	2/20/2013
Surr: Tetrachloro-m-xylene	*80.6*		*34-145*	*%REC*	1	2/20/2013
MOISTURE			**SM2540B**		Prep Date: **2/20/2013**	Analyst: **YCL**
Moisture	**21**		**0.010**	**% of sample**	1	2/20/2013

Note:

ALS Environmental

Date: *20-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302328
Sample ID: C-1-FL **Lab ID:** 1302328-05
Collection Date: 2/19/2013 10:45 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1221	ND		0.43	mg/Kg-dry	1	2/20/2013
Aroclor 1232	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1242	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1248	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1254	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1260	ND		0.22	mg/Kg-dry	1	2/20/2013
Surr: Decachlorobiphenyl	*88.6*		*22-156*	*%REC*	1	2/20/2013
Surr: Tetrachloro-m-xylene	*82.4*		*34-145*	*%REC*	1	2/20/2013
MOISTURE			**SM2540B**		Prep Date: **2/20/2013**	Analyst: **YCL**
Moisture	**23**		**0.010**	**% of sample**	1	2/20/2013

Note:

ALS Environmental

Date: *20-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302328
Sample ID: C-2-FL **Lab ID:** 1302328-06
Collection Date: 2/19/2013 11:30 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1221	ND		0.41	mg/Kg-dry	1	2/20/2013
Aroclor 1232	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1242	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1248	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1254	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1260	ND		0.21	mg/Kg-dry	1	2/20/2013
Surr: Decachlorobiphenyl	*85.6*		*22-156*	*%REC*	1	2/20/2013
Surr: Tetrachloro-m-xylene	*78.8*		*34-145*	*%REC*	1	2/20/2013
MOISTURE			**SM2540B**		Prep Date: **2/20/2013**	Analyst: **YCL**
Moisture	**19**		**0.010**	**% of sample**	1	2/20/2013

Note:

ALS Environmental

Date: *20-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302328
Sample ID: C-1-SW **Lab ID:** 1302328-07
Collection Date: 2/19/2013 11:50 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.20	mg/Kg-dry	1	2/20/2013
Aroclor 1221	ND		0.41	mg/Kg-dry	1	2/20/2013
Aroclor 1232	ND		0.20	mg/Kg-dry	1	2/20/2013
Aroclor 1242	ND		0.20	mg/Kg-dry	1	2/20/2013
Aroclor 1248	ND		0.20	mg/Kg-dry	1	2/20/2013
Aroclor 1254	ND		0.20	mg/Kg-dry	1	2/20/2013
Aroclor 1260	ND		0.20	mg/Kg-dry	1	2/20/2013
Surr: Decachlorobiphenyl	*83.6*		*22-156*	*%REC*	1	2/20/2013
Surr: Tetrachloro-m-xylene	*78.6*		*34-145*	*%REC*	1	2/20/2013
MOISTURE			**SM2540B**		Prep Date: **2/20/2013**	Analyst: **YCL**
Moisture	**19**		**0.010**	**% of sample**	1	2/20/2013

Note:

ALS Environmental

Date: *20-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003
Work Order: 1302328
Sample ID: C-2-SW
Lab ID: 1302328-08
Collection Date: 2/19/2013 12:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/20/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.20	mg/Kg-dry	1	2/20/2013
Aroclor 1221	ND		0.40	mg/Kg-dry	1	2/20/2013
Aroclor 1232	ND		0.20	mg/Kg-dry	1	2/20/2013
Aroclor 1242	ND		0.20	mg/Kg-dry	1	2/20/2013
Aroclor 1248	ND		0.20	mg/Kg-dry	1	2/20/2013
Aroclor 1254	ND		0.20	mg/Kg-dry	1	2/20/2013
Aroclor 1260	ND		0.20	mg/Kg-dry	1	2/20/2013
Surr: Decachlorobiphenyl	*80.0*		*22-156*	*%REC*	1	2/20/2013
Surr: Tetrachloro-m-xylene	*75.0*		*34-145*	*%REC*	1	2/20/2013
MOISTURE			**SM2540B**		Prep Date: **2/20/2013**	Analyst: **YCL**
Moisture	**17**		**0.010**	**% of sample**	1	2/20/2013

Note:

ALS Environmental

Date: *20-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302328
Sample ID: EB **Lab ID:** 1302328-09
Collection Date: 2/19/2013 **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.51	µg/L	1	2/20/2013
Aroclor 1221	ND		0.51	µg/L	1	2/20/2013
Aroclor 1232	ND		0.51	µg/L	1	2/20/2013
Aroclor 1242	ND		0.51	µg/L	1	2/20/2013
Aroclor 1248	ND		0.51	µg/L	1	2/20/2013
Aroclor 1254	ND		0.51	µg/L	1	2/20/2013
Aroclor 1260	ND		0.51	µg/L	1	2/20/2013
Surr: Decachlorobiphenyl	*80.2*		*37-108*	*%REC*	1	2/20/2013
Surr: Tetrachloro-m-xylene	*73.2*		*9-136*	*%REC*	1	2/20/2013

Note:

ALS Environmental

Date: *20-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302328
Sample ID: FB **Lab ID:** 1302328-10
Collection Date: 2/19/2013 **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.51	µg/L	1	2/20/2013
Aroclor 1221	ND		0.51	µg/L	1	2/20/2013
Aroclor 1232	ND		0.51	µg/L	1	2/20/2013
Aroclor 1242	ND		0.51	µg/L	1	2/20/2013
Aroclor 1248	ND		0.51	µg/L	1	2/20/2013
Aroclor 1254	ND		0.51	µg/L	1	2/20/2013
Aroclor 1260	ND		0.51	µg/L	1	2/20/2013
Surr: Decachlorobiphenyl	*79.8*		*37-108*	*%REC*	1	2/20/2013
Surr: Tetrachloro-m-xylene	*76.4*		*9-136*	*%REC*	1	2/20/2013

Note:

ALS Environmental

Date: *20-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302328
Sample ID: TB **Lab ID:** 1302328-11
Collection Date: 2/19/2013 **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/19/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.51	µg/L	1	2/20/2013
Aroclor 1221	ND		0.51	µg/L	1	2/20/2013
Aroclor 1232	ND		0.51	µg/L	1	2/20/2013
Aroclor 1242	ND		0.51	µg/L	1	2/20/2013
Aroclor 1248	ND		0.51	µg/L	1	2/20/2013
Aroclor 1254	ND		0.51	µg/L	1	2/20/2013
Aroclor 1260	ND		0.51	µg/L	1	2/20/2013
Surr: Decachlorobiphenyl	*76.4*		*37-108*	*%REC*	1	2/20/2013
Surr: Tetrachloro-m-xylene	*79.2*		*9-136*	*%REC*	1	2/20/2013

Note:

ALS Environmental

Date: 20-Feb-13

Client: Cardno ATC

Work Order: 1302328

Project: Morgens Hall; Project No.: 72.41360.0003

QC BATCH REPORT

Batch ID: **15422** Instrument ID: **GC9** Method: **SW8082**

MBLK Sample ID: **MBLK-15422-15422** Units: **µg/L** Analysis Date: **2/19/2013**

Client ID: Run ID: **GC9_130219A** SeqNo: **567776** Prep Date: **2/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.50								
Aroclor 1221	ND	0.50								
Aroclor 1232	ND	0.50								
Aroclor 1242	ND	0.50								
Aroclor 1248	ND	0.50								
Aroclor 1254	ND	0.50								
Aroclor 1260	ND	0.50								
Surr: Decachlorobiphenyl	*0.327*	0	*0.5*	0	*65.4*	*37-108*	0			
Surr: Tetrachloro-m-xylene	*0.394*	0	*0.5*	0	*78.8*	*9-136*	0			

LCS Sample ID: **LCS-15422-15422** Units: **µg/L** Analysis Date: **2/19/2013**

Client ID: Run ID: **GC9_130219A** SeqNo: **567777** Prep Date: **2/19/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	9.755	0.50	10	0	97.6	61-122	0			
Surr: Decachlorobiphenyl	*0.359*	0	*0.5*	0	*71.8*	*37-108*	0			
Surr: Tetrachloro-m-xylene	*0.387*	0	*0.5*	0	*77.4*	*9-136*	0			

The following samples were analyzed in this batch: 1302328-09A 1302328-10A 1302328-11A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Cardno ATC
Work Order: 1302328
Project: Morgens Hall; Project No.: 72.41360.0003

QC BATCH REPORT

Batch ID: **15437** Instrument ID: **GC9** Method: **SW8082**

MBLK Sample ID: **MBLK-15437-15437** Units: **mg/Kg** Analysis Date: **2/20/2013**
Client ID: Run ID: **GC9_130220A** SeqNo: **568241** Prep Date: **2/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	1.0								
Aroclor 1221	ND	2.0								
Aroclor 1232	ND	1.0								
Aroclor 1242	ND	1.0								
Aroclor 1248	ND	1.0								
Aroclor 1254	ND	1.0								
Aroclor 1260	ND	1.0								
Surr: Decachlorobiphenyl	*0.0848*	0	*0.1*	0	*84.8*	*22-156*	0			
Surr: Tetrachloro-m-xylene	*0.0826*	0	*0.1*	0	*82.6*	*34-145*	0			

LCS Sample ID: **LCS-15437-15437** Units: **mg/Kg** Analysis Date: **2/20/2013**
Client ID: Run ID: **GC9_130220A** SeqNo: **568242** Prep Date: **2/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.896	1.0	2	0	94.8	50-133	0			
Surr: Decachlorobiphenyl	*0.0838*	0	*0.1*	0	*83.8*	*22-156*	0			
Surr: Tetrachloro-m-xylene	*0.0774*	0	*0.1*	0	*77.4*	*34-145*	0			

MS Sample ID: **1302328-02AMS** Units: **mg/Kg** Analysis Date: **2/20/2013**
Client ID: **C-4-NW** Run ID: **GC9_130220A** SeqNo: **568245** Prep Date: **2/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	0.3032	0.17	0.3334	0	90.9	31-150	0			
Surr: Decachlorobiphenyl	*0.01344*	0	*0.01667*	0	*80.6*	*22-156*	0			
Surr: Tetrachloro-m-xylene	*0.0124*	0	*0.01667*	0	*74.4*	*34-145*	0			

MSD Sample ID: **1302328-02AMSD** Units: **mg/Kg** Analysis Date: **2/20/2013**
Client ID: **C-4-NW** Run ID: **GC9_130220A** SeqNo: **568246** Prep Date: **2/20/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	0.306	0.17	0.3329	0	91.9	31-150	0.3032	0.938	53	
Surr: Decachlorobiphenyl	*0.01318*	0	*0.01664*	0	*79.2*	*22-156*	0.01344	*1.92*		
Surr: Tetrachloro-m-xylene	*0.01318*	0	*0.01664*	0	*79.2*	*34-145*	0.0124	*6.08*		

The following samples were analyzed in this batch:

1302328-01A	1302328-02A	1302328-03A
1302328-04A	1302328-05A	1302328-06A
1302328-07A	1302328-08A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 20-Feb-13

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003
WorkOrder: 1302328

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
µg/L	
mg/Kg-dry	

ALS Environmental

Sample Receipt Checklist

Client Name: ATC-CINCINNATI | Date/Time Received: 19-Feb-13 13:12

Work Order: 1302328 | Received by: JNW

Checklist completed by: Jan Wilcox (eSignature) 19-Feb-13 (Date) | Reviewed by: Chris Gibson (eSignature) 20-Feb-13 (Date)

Matrices:

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.0		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: | Date Contacted: | Person Contacted:

Contacted By: | Regarding:

Comments:

CorrectiveAction:

ALS Environmental

22-Feb-2013

Mike Luessen
Cardno ATC
11121 Canal Road
Cincinnati, OH 45241-1861

Tel: 513-771-2112
Fax: 513-782-6908

Re: Morgens Hall; Project No.: 72.41360.0003 Work Order: **1302376**

Dear Mike,

ALS Environmental received 4 samples on 21-Feb-2013 10:29 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ALS Environmental

Date: 22-Feb-13

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003
Work Order: 1302376

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1302376-01	C-18-FL	Soil		2/21/2013 08:20	2/21/2013 10:29	☐
1302376-02	C-18-NW	Soil		2/21/2013 08:30	2/21/2013 10:29	☐
1302376-03	C-18-WW	Soil		2/21/2013 09:00	2/21/2013 10:29	☐
1302376-04	TB	Water		2/21/2013	2/21/2013 10:29	☐

ALS Environmental *Date: 22-Feb-13*

Client:	Cardno ATC
Project:	Morgens Hall; Project No.: 72.41360.0003
Work Order:	1302376

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *22-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003

Work Order: 1302376

Lab ID: 1302376-01A
Client Sample ID: C-18-FL

Collection Date: 2/21/2013 8:20:00 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/21/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.20	mg/Kg-dry	1	2/21/2013
Aroclor 1221	ND		0.41	mg/Kg-dry	1	2/21/2013
Aroclor 1232	ND		0.20	mg/Kg-dry	1	2/21/2013
Aroclor 1242	ND		0.20	mg/Kg-dry	1	2/21/2013
Aroclor 1248	ND		0.20	mg/Kg-dry	1	2/21/2013
Aroclor 1254	**0.37**		**0.20**	**mg/Kg-dry**	1	2/21/2013
Aroclor 1260	ND		0.20	mg/Kg-dry	1	2/21/2013
Surr: Decachlorobiphenyl	*75.6*		*22-156*	*%REC*	1	2/21/2013
Surr: Tetrachloro-m-xylene	*71.2*		*34-145*	*%REC*	1	2/21/2013
MOISTURE			**SM2540B**		Prep Date: **2/21/2013**	Analyst: **KMW**
Moisture	**18**		**0.010**	**% of sample**	1	2/19/2013

Lab ID: 1302376-02A
Client Sample ID: C-18-NW

Collection Date: 2/21/2013 8:30:00 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/21/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.21	mg/Kg-dry	1	2/21/2013
Aroclor 1221	ND		0.42	mg/Kg-dry	1	2/21/2013
Aroclor 1232	ND		0.21	mg/Kg-dry	1	2/21/2013
Aroclor 1242	ND		0.21	mg/Kg-dry	1	2/21/2013
Aroclor 1248	ND		0.21	mg/Kg-dry	1	2/21/2013
Aroclor 1254	**0.25**		**0.21**	**mg/Kg-dry**	1	2/21/2013
Aroclor 1260	ND		0.21	mg/Kg-dry	1	2/21/2013
Surr: Decachlorobiphenyl	*73.6*		*22-156*	*%REC*	1	2/21/2013
Surr: Tetrachloro-m-xylene	*69.2*		*34-145*	*%REC*	1	2/21/2013
MOISTURE			**SM2540B**		Prep Date: **2/21/2013**	Analyst: **KMW**
Moisture	**21**		**0.010**	**% of sample**	1	2/19/2013

Note:

ALS Environmental

Date: *22-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003

Work Order: 1302376

Lab ID: 1302376-03A
Client Sample ID: C-18-WW

Collection Date: 2/21/2013 9:00:00 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/21/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.22	mg/Kg-dry	1	2/21/2013
Aroclor 1221	ND		0.44	mg/Kg-dry	1	2/21/2013
Aroclor 1232	ND		0.22	mg/Kg-dry	1	2/21/2013
Aroclor 1242	ND		0.22	mg/Kg-dry	1	2/21/2013
Aroclor 1248	ND		0.44	mg/Kg-dry	20	2/21/2013
Aroclor 1254	**1.3**		**0.44**	**mg/Kg-dry**	20	2/21/2013
Aroclor 1260	ND		0.44	mg/Kg-dry	20	2/21/2013
Surr: Decachlorobiphenyl	*79.8*		*22-156*	*%REC*	1	2/21/2013
Surr: Tetrachloro-m-xylene	*72.2*		*34-145*	*%REC*	1	2/21/2013
MOISTURE			**SM2540B**		Prep Date: **2/21/2013**	Analyst: **KMW**
Moisture	**24**		**0.010**	**% of sample**	1	2/19/2013

Lab ID: 1302376-04A
Client Sample ID: TB

Collection Date: 2/21/2013
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/21/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.51	µg/L	1	2/21/2013
Aroclor 1221	ND		0.51	µg/L	1	2/21/2013
Aroclor 1232	ND		0.51	µg/L	1	2/21/2013
Aroclor 1242	ND		0.51	µg/L	1	2/21/2013
Aroclor 1248	ND		0.51	µg/L	1	2/21/2013
Aroclor 1254	ND		0.51	µg/L	1	2/21/2013
Aroclor 1260	ND		0.51	µg/L	1	2/21/2013
Surr: Decachlorobiphenyl	*68.0*		*37-108*	*%REC*	1	2/21/2013
Surr: Tetrachloro-m-xylene	*68.2*		*9-136*	*%REC*	1	2/21/2013

Note:

ALS Environmental

Date: 22-Feb-13

Client: Cardno ATC

Work Order: 1302376

Project: Morgens Hall; Project No.: 72.41360.0003

QC BATCH REPORT

Batch ID: **15465** Instrument ID: **GC9** Method: **SW8082**

MBLK Sample ID: **MBLK-15465-15465** Units: **mg/Kg** Analysis Date: **2/21/2013**

Client ID: Run ID: **GC9_130221A** SeqNo: **569172** Prep Date: **2/21/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	1.0								
Aroclor 1221	ND	2.0								
Aroclor 1232	ND	1.0								
Aroclor 1242	ND	1.0								
Aroclor 1248	ND	1.0								
Aroclor 1254	ND	1.0								
Aroclor 1260	ND	1.0								
Surr: Decachlorobiphenyl	*0.0772*	0	*0.1*	0	*77.2*	*22-156*	0			
Surr: Tetrachloro-m-xylene	*0.0722*	0	*0.1*	0	*72.2*	*34-145*	0			

LCS Sample ID: **LCS-15465-15465** Units: **mg/Kg** Analysis Date: **2/21/2013**

Client ID: Run ID: **GC9_130221A** SeqNo: **569173** Prep Date: **2/21/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.871	1.0	2	0	93.6	50-133	0			
Surr: Decachlorobiphenyl	*0.0794*	0	*0.1*	0	*79.4*	*22-156*	0			
Surr: Tetrachloro-m-xylene	*0.0718*	0	*0.1*	0	*71.8*	*34-145*	0			

MS Sample ID: **1302376-01AMS** Units: **mg/Kg** Analysis Date: **2/21/2013**

Client ID: **C-18-FL** Run ID: **GC9_130221A** SeqNo: **569175** Prep Date: **2/21/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	0.3806	0.17	0.3339	0	114	31-150	0			
Surr: Decachlorobiphenyl	*0.01229*	0	*0.01669*	0	*73.6*	*22-156*	0			
Surr: Tetrachloro-m-xylene	*0.01135*	0	*0.01669*	0	*68*	*34-145*	0			

MSD Sample ID: **1302376-01AMSD** Units: **mg/Kg** Analysis Date: **2/21/2013**

Client ID: **C-18-FL** Run ID: **GC9_130221A** SeqNo: **569176** Prep Date: **2/21/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	0.4902	0.17	0.3334	0	147	31-150	0.3806	25.2	53	
Surr: Decachlorobiphenyl	*0.01307*	0	*0.01667*	0	*78.4*	*22-156*	0.01229	*6.18*		
Surr: Tetrachloro-m-xylene	*0.01267*	0	*0.01667*	0	*76*	*34-145*	0.01135	*11*		

The following samples were analyzed in this batch: 1302376-01A 1302376-02A 1302376-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Cardno ATC
Work Order: 1302376
Project: Morgens Hall; Project No.: 72.41360.0003

QC BATCH REPORT

Batch ID: **15466** Instrument ID: **GC9** Method: **SW8082**

MBLK Sample ID: **MBLK-15466-15466** Units: **µg/L** Analysis Date: **2/21/2013**
Client ID: Run ID: **GC9_130221A** SeqNo: **569179** Prep Date: **2/21/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.50								
Aroclor 1221	ND	0.50								
Aroclor 1232	ND	0.50								
Aroclor 1242	ND	0.50								
Aroclor 1248	ND	0.50								
Aroclor 1254	ND	0.50								
Aroclor 1260	ND	0.50								
Surr: Decachlorobiphenyl	*0.328*	0	*0.5*	0	*65.6*	*37-108*	0			
Surr: Tetrachloro-m-xylene	*0.3*	0	*0.5*	0	*60*	*9-136*	0			

LCS Sample ID: **LCS-15466-15466** Units: **µg/L** Analysis Date: **2/21/2013**
Client ID: Run ID: **GC9_130221A** SeqNo: **569180** Prep Date: **2/21/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	9.451	0.50	10	0	94.5	61-122	0			
Surr: Decachlorobiphenyl	*0.365*	0	*0.5*	0	*73*	*37-108*	0			
Surr: Tetrachloro-m-xylene	*0.31*	0	*0.5*	0	*62*	*9-136*	0			

The following samples were analyzed in this batch: 1302376-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 22-Feb-13

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003
WorkOrder: 1302376

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
µg/L	
mg/Kg-dry	

ALS Environmental

Sample Receipt Checklist

Client Name: ATC-CINCINNATI Date/Time Received: 21-Feb-13 10:29

Work Order: 1302376 Received by: JNW

Checklist completed by: J an Wilcox (eSignature) 21-Feb-13 (Date) Reviewed by: Chris Gibson (eSignature) 22-Feb-13 (Date)

Matrices:

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.0		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ALS Environmental

27-Feb-2013

Mike Luessen
Cardno ATC
11121 Canal Road
Cincinnati, OH 45241-1861

Tel: 513-771-2112
Fax: 513-782-6908

Re: Morgens Hall; Project No.: 72.41360.0003 Work Order: **1302456**

Dear Mike,

ALS Environmental received 4 samples on 26-Feb-2013 11:25 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Rob Nieman

Chris Gibson
Project Manager

ALS Environmental

Date: 27-Feb-13

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003
Work Order: 1302456

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1302456-01	C-17-FL	Soil		2/26/2013 08:30	2/26/2013 11:25	☐
1302456-02	C-19-FL	Soil		2/26/2013 09:00	2/26/2013 11:25	☐
1302456-03	C-19-NW	Soil		2/26/2013 09:30	2/26/2013 11:25	☐
1302456-04	Trip Blank	Water		2/26/2013	2/26/2013 11:25	☐

ALS Environmental *Date: 27-Feb-13*

Client:	Cardno ATC
Project:	Morgens Hall; Project No.: 72.41360.0003
Work Order:	1302456

Case Narrative

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Update III, June 13, 1997.

ALS Environmental

Date: *27-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302456
Sample ID: C-17-FL **Lab ID:** 1302456-01
Collection Date: 2/26/2013 08:30 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.020	mg/Kg-dry	1	2/26/2013
Aroclor 1221	ND		0.040	mg/Kg-dry	1	2/26/2013
Aroclor 1232	ND		0.020	mg/Kg-dry	1	2/26/2013
Aroclor 1242	ND		0.020	mg/Kg-dry	1	2/26/2013
Aroclor 1248	ND		0.020	mg/Kg-dry	1	2/26/2013
Aroclor 1254	**0.11**		**0.020**	**mg/Kg-dry**	1	2/26/2013
Aroclor 1260	ND		0.020	mg/Kg-dry	1	2/26/2013
Surr: Decachlorobiphenyl	*74.4*		*22-156*	*%REC*	1	2/26/2013
Surr: Tetrachloro-m-xylene	*68.8*		*34-145*	*%REC*	1	2/26/2013
MOISTURE			**SM2540B**		Prep Date: **2/26/2013**	Analyst: **YCL**
Moisture	**17**		**0.010**	**% of sample**	1	2/26/2013

Note:

ALS Environmental

Date: *27-Feb-13*

Client: Cardno ATC

Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302456

Sample ID: C-19-FL **Lab ID:** 1302456-02

Collection Date: 2/26/2013 09:00 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.021	mg/Kg-dry	1	2/26/2013
Aroclor 1221	ND		0.043	mg/Kg-dry	1	2/26/2013
Aroclor 1232	ND		0.021	mg/Kg-dry	1	2/26/2013
Aroclor 1242	ND		0.021	mg/Kg-dry	1	2/26/2013
Aroclor 1248	ND		0.021	mg/Kg-dry	1	2/26/2013
Aroclor 1254	**0.41**		**0.021**	**mg/Kg-dry**	1	2/26/2013
Aroclor 1260	ND		0.021	mg/Kg-dry	1	2/26/2013
Surr: Decachlorobiphenyl	*73.2*		*22-156*	*%REC*	1	2/26/2013
Surr: Tetrachloro-m-xylene	*71.6*		*34-145*	*%REC*	1	2/26/2013
MOISTURE			**SM2540B**		Prep Date: **2/26/2013**	Analyst: **YCL**
Moisture	**22**		**0.010**	**% of sample**	1	2/26/2013

Note:

ALS Environmental

Date: *27-Feb-13*

Client: Cardno ATC

Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302456

Sample ID: C-19-NW **Lab ID:** 1302456-03

Collection Date: 2/26/2013 09:30 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.022	mg/Kg-dry	1	2/26/2013
Aroclor 1221	ND		0.045	mg/Kg-dry	1	2/26/2013
Aroclor 1232	ND		0.022	mg/Kg-dry	1	2/26/2013
Aroclor 1242	ND		0.022	mg/Kg-dry	1	2/26/2013
Aroclor 1248	ND		0.022	mg/Kg-dry	1	2/26/2013
Aroclor 1254	**0.26**		**0.022**	**mg/Kg-dry**	1	2/26/2013
Aroclor 1260	ND		0.022	mg/Kg-dry	1	2/26/2013
Surr: Decachlorobiphenyl	*79.4*		*22-156*	*%REC*	1	2/26/2013
Surr: Tetrachloro-m-xylene	*103*		*34-145*	*%REC*	1	2/26/2013
MOISTURE			**SM2540B**		Prep Date: **2/26/2013**	Analyst: **YCL**
Moisture	**25**		**0.010**	**% of sample**	1	2/26/2013

Note:

ALS Environmental

Date: *27-Feb-13*

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003 **Work Order:** 1302456
Sample ID: Trip Blank **Lab ID:** 1302456-04
Collection Date: 2/26/2013 **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **2/26/2013**	Analyst: **SAD**
Aroclor 1016	ND		0.53	µg/L	1	2/26/2013
Aroclor 1221	ND		0.53	µg/L	1	2/26/2013
Aroclor 1232	ND		0.53	µg/L	1	2/26/2013
Aroclor 1242	ND		0.53	µg/L	1	2/26/2013
Aroclor 1248	ND		0.53	µg/L	1	2/26/2013
Aroclor 1254	ND		0.53	µg/L	1	2/26/2013
Aroclor 1260	ND		0.53	µg/L	1	2/26/2013
Surr: Decachlorobiphenyl	*67.6*		*37-108*	*%REC*	1	2/26/2013
Surr: Tetrachloro-m-xylene	*72.2*		*9-136*	*%REC*	1	2/26/2013

Note:

ALS Environmental

Date: 27-Feb-13

Client: Cardno ATC

Work Order: 1302456

Project: Morgens Hall; Project No.: 72.41360.0003

QC BATCH REPORT

Batch ID: **15527** Instrument ID: **GC9** Method: **SW8082**

MBLK Sample ID: **MBLK-15527-15527** Units: **mg/Kg** Analysis Date: **2/26/2013**

Client ID: Run ID: **GC9_130226A** SeqNo: **570750** Prep Date: **2/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	*0.079*	0	*0.1*	0	*79*	*22-156*	0			
Surr: Tetrachloro-m-xylene	*0.077*	0	*0.1*	0	*77*	*34-145*	0			

LCS Sample ID: **LCS-15527-15527** Units: **mg/Kg** Analysis Date: **2/26/2013**

Client ID: Run ID: **GC9_130226A** SeqNo: **570751** Prep Date: **2/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.916	0.10	2	0	95.8	50-133	0			
Surr: Decachlorobiphenyl	*0.08*	0	*0.1*	0	*80*	*22-156*	0			
Surr: Tetrachloro-m-xylene	*0.076*	0	*0.1*	0	*76*	*34-145*	0			

MS Sample ID: **1302371-09AMS** Units: **mg/Kg** Analysis Date: **2/26/2013**

Client ID: Run ID: **GC9_130226A** SeqNo: **570761** Prep Date: **2/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.848	0.10	2.004	0	92.2	31-150	0			
Surr: Decachlorobiphenyl	*0.07776*	0	*0.1002*	0	*77.6*	*22-156*	0			
Surr: Tetrachloro-m-xylene	*0.07595*	0	*0.1002*	0	*75.8*	*34-145*	0			

MSD Sample ID: **1302371-09AMSD** Units: **mg/Kg** Analysis Date: **2/26/2013**

Client ID: Run ID: **GC9_130226A** SeqNo: **570762** Prep Date: **2/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.838	0.10	2.008	0	91.5	31-150	1.848	0.55	53	
Surr: Decachlorobiphenyl	*0.07851*	0	*0.1004*	0	*78.2*	*22-156*	0.07776	*0.971*		
Surr: Tetrachloro-m-xylene	*0.07691*	0	*0.1004*	0	*76.6*	*34-145*	0.07595	*1.25*		

The following samples were analyzed in this batch: 1302456-01A 1302456-02A 1302456-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Cardno ATC
Work Order: 1302456
Project: Morgens Hall; Project No.: 72.41360.0003

QC BATCH REPORT

Batch ID: **15537** Instrument ID: **GC9** Method: **SW8082**

MBLK Sample ID: **MBLK-15537-15537** Units: **µg/L** Analysis Date: **2/26/2013**
Client ID: Run ID: **GC9_130226A** SeqNo: **570747** Prep Date: **2/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.50								
Aroclor 1221	ND	0.50								
Aroclor 1232	ND	0.50								
Aroclor 1242	ND	0.50								
Aroclor 1248	ND	0.50								
Aroclor 1254	ND	0.50								
Aroclor 1260	ND	0.50								
Surr: Decachlorobiphenyl	*0.298*	0	*0.5*	0	*59.6*	*37-108*	0			
Surr: Tetrachloro-m-xylene	*0.324*	0	*0.5*	0	*64.8*	*9-136*	0			

LCS Sample ID: **LCS-15537-15537** Units: **µg/L** Analysis Date: **2/26/2013**
Client ID: Run ID: **GC9_130226A** SeqNo: **570748** Prep Date: **2/26/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	8.935	0.50	10	0	89.4	61-122	0			
Surr: Decachlorobiphenyl	*0.342*	0	*0.5*	0	*68.4*	*37-108*	0			
Surr: Tetrachloro-m-xylene	*0.327*	0	*0.5*	0	*65.4*	*9-136*	0			

The following samples were analyzed in this batch: 1302456-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 27-Feb-13

Client: Cardno ATC
Project: Morgens Hall; Project No.: 72.41360.0003
WorkOrder: 1302456

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
% of sample	
µg/L	
mg/Kg-dry	

ALS Environmental

Sample Receipt Checklist

Client Name: **ATC-CINCINNATI** Date/Time Received: **26-Feb-13 11:25**

Work Order: **1302456** Received by: **AMG**

Checklist completed by: J an Wilcox 26-Feb-13 Reviewed by: Chris Gibson 27-Feb-13
eSignature Date eSignature Date

Matrices:
Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.2		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: